

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P249980

Luminaire Tested: **LSR8B80D010 EC8B80850 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13951)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80850 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7469.0 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

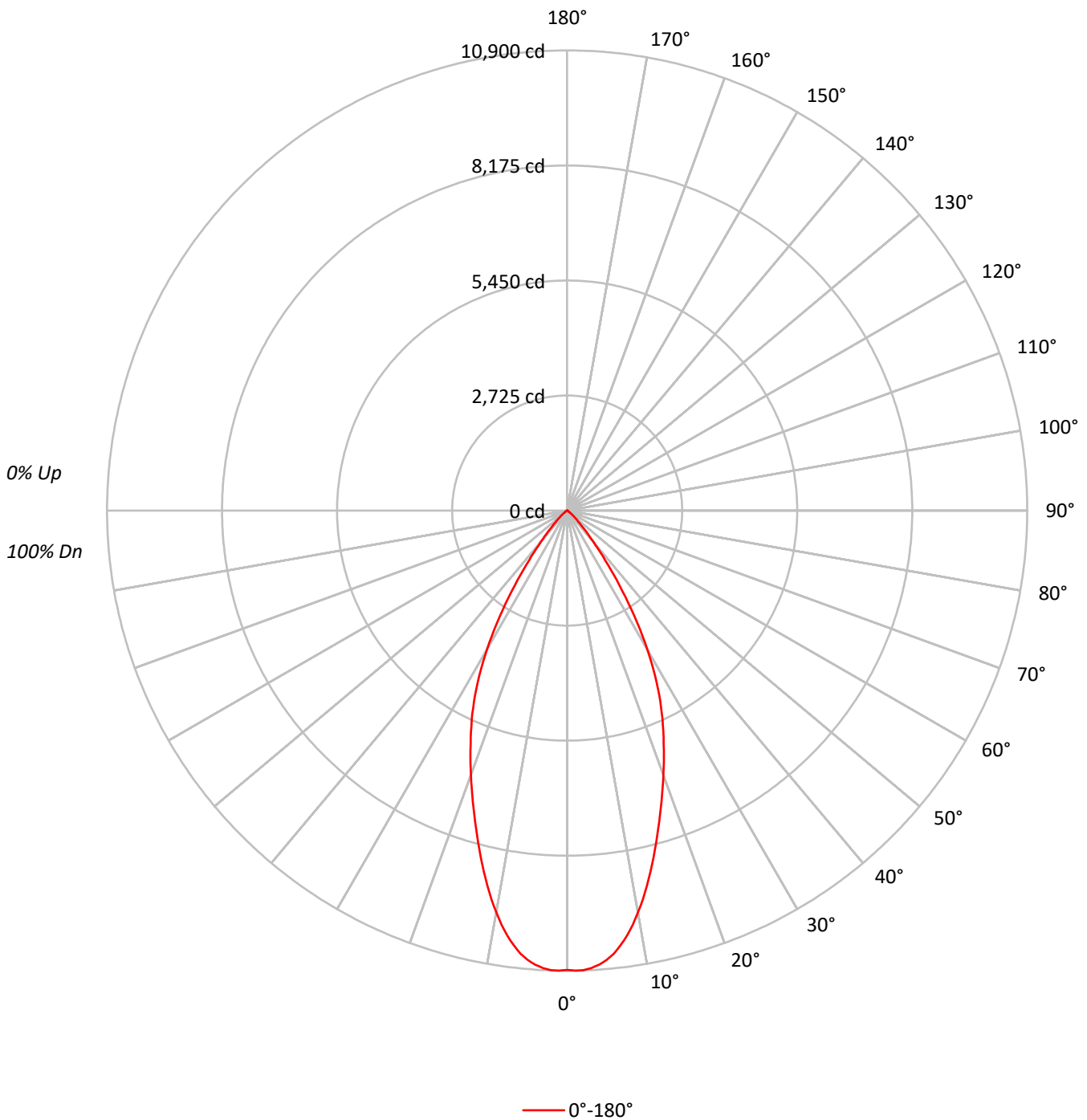
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64
8	81	72	66	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	58	65	61	58	57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	335462
5°	330788
10°	302624
15°	259827
20°	218803
25°	180780
30°	135601
35°	80826
40°	38511
45°	16776
50°	7608
55°	3349
60°	1924
65°	1138
70°	1172
75°	0
80°	462
85°	1840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	987.4	13.2
10°-20°	2265.4	30.3
20°-30°	2406.7	32.2
30°-40°	1373.2	18.4
40°-50°	340.5	4.6
50°-60°	66.9	0.9
60°-70°	20.2	0.3
70°-80°	4.8	0.1
80°-90°	3.9	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5659.5	75.8
0°-40°	7032.7	94.2
0°-60°	7440.1	99.6
0°-90°	7469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7469.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10879	
5°	10686	987
15°	8139	2265
25°	5313	2407
35°	2147	1373
45°	385	340
55°	62	67
65°	16	20
75°	0	5
85°	5	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10878.8
1°	10899.6
2°	10891.8
3°	10852.8
4°	10785.3
5°	10686.4
6°	10556.5
7°	10377.1
8°	10171.7
9°	9930.1
10°	9664.8
11°	9384.2
12°	9082.5
13°	8775.8
14°	8461.3
15°	8138.9
16°	7834.8
17°	7528.1
18°	7239.5
19°	6945.8
20°	6667.7
22.5°	5978.7
25°	5313.3
27.5°	4598.5
30°	3808.3
32.5°	2960.8
35°	2147.1
37.5°	1479.1
40°	956.7
42.5°	605.7
45°	384.7
47.5°	252.2
50°	158.6
52.5°	96.2
55°	62.3
57.5°	49.4
60°	31.2
62.5°	28.6
65°	15.6
67.5°	15.6
70°	13.0
72.5°	7.8
75°	0.0
77.5°	2.6
80°	2.6



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	5.2
85°	5.2
87.5°	2.6
90°	0.0

(END OF REPORT)